

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Etienne Weiss and Dominique Desplancq

Serial No.: 10/596,002

Filed: May 24, 2006

For: SYSTEM FOR THE INDUCIBLE  
EXPRESSION OF RECOMBINANT  
PROTEINS IN CYANOBACTERIA

Group Art Unit: 1653

Examiner: Unknown

Atty. Dkt. No.: BDAC:009US

Confirmation No.: 1593

**CERTIFICATE OF ELECTRONIC SUBMISSION**

**DATE OF SUBMISSION:** November 13, 2006

**INFORMATION DISCLOSURE STATEMENT**

**MS AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

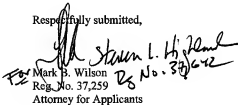
In accordance with 37 C.F.R. § 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be

an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. § 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/BDAC:009US.

Applicants respectfully request that the listed documents be made of record in the present case.

Respectfully submitted,

  
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Attorney for Applicants  
DS No. 37,259

FULBRIGHT & JAWORSKI L.L.P.  
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Date: November 13, 2006

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|--|--|---|--------------------------|
| Form PTO-1449 (modified)                         |  | Atty. Docket No.<br>BDAC:009US                    | Serial No.<br>10/596,002 |
| List of Patents and Publications for Applicant's |  | Applicant<br>Etienne Weiss<br>Dominique Desplancq |                          |
| INFORMATION DISCLOSURE STATEMENT                 |  | Filing Date:<br>May 24, 2006                      | Group:<br>1653           |
| (Use several sheets if necessary)                |  |   |                          |
| U.S. Patent Documents<br>See Page 1              | Foreign Patent Documents<br>See Page 1 | Other Art<br>See Page 1-2                         |                          |

## U.S. Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Name | Class | Sub Class | Filing Date of App. |
|-------------|-----------|-----------------|------|------|-------|-----------|---------------------|
|             |           |                 |      |      |       |           |                     |

## Foreign Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Country | Language |
|-------------|-----------|-----------------|------|---------|----------|
|             |           |                 |      |         |          |

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation  |
|-------------|-----------|---|
|             | C1        | Betton and Hoffnung, "Folding of a Mutant Maltose-binding Protein of Escherichia coli Which Forms Inclusion Bodies," <i>J. Biol. Chem.</i> , 271:8046-8052, 1996.   |
|             | C2        | Castenholz, "Culturing Methods of Cyanobacteria," <i>Methods Enzymol.</i> , 167:68-92, 1988.  |
|             | C3        | Cramer <i>et al.</i> , "Improved Green Fluorescent Protein by Molecular Evolution Using DNA Shuffling," <i>Nature Biotechnol.</i> , 14:315-319, 1996.   |
|             | C4        | Desplancq <i>et al.</i> , "Cost-Effective and Uniform <sup>13</sup> C- and <sup>15</sup> N-labeling of the 24-kDa N-Terminal Domain of the Escherichia coli Gyrase B by Overexpression in the Photoautotrophic Cyanobacterium <i>Anabaena</i> sp. PCC 7120," <i>Protein Express. Purif.</i> , 23:201-217, 2001. |
|             | C5        | Elhai and Wolk, "Conjugal Transfer of DNA to Cyanobacteria," <i>Methods Enzymol.</i> , 167:747-754, 1988.   |
|             | C6        | Frias <i>et al.</i> , "Nitrate Assimilation Gene Cluster from the Heterocyst-Forming Cyanobacterium <i>Anabaena</i> sp. Strain PCC7120," <i>J. Bacteriol.</i> , 179:477-486, 1997.  |
|             | C7        | Geerts <i>et al.</i> , "Inducible expression of heterologous genes targeted to a chromosomal platform in the cyanobacterium <i>Synechococcus</i> sp. PCC 7942," <i>Microbiology</i> , 141:831-841, 1995.  |
|             | C8        | Nominé <i>et al.</i> , "A strategy for optimizing the monodispersity of fusion proteins: application to purification of recombinant HPV E6 oncoprotein," <i>Protein Eng.</i> , 14:297-305, 2001.  |
|             | C9        | Nominé <i>et al.</i> , "Domain Substructure of HPV E6 Oncoprotein: Biophysical Characterization of the E6 C-Terminal DNA-Binding Domain," <i>Biochem.</i> , 42:4909-4917, 2003.   |

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## EXAMINER:

## DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPPE609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

|   |  |   |                          |
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|   |  |   |                          |
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### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam.<br>Init. | Ref.<br>Des. | Citation   |
|----------------|--------------|--|
|                | C10          | Studier <i>et al.</i> , "Use of Bacteriophage T7 RNA Polymerase to Direct Selective High-level Expression of Cloned Genes," <i>J. Mol. Biol.</i> , 189:113-130, 1986.                        |
|                | C11          | Wolk <i>et al.</i> , "Isolation and Complementation of Mutants of <i>Anabaena</i> sp. Strain PCC 7120 Unable to Grow Aerobically on Dinitrogen," <i>J. Bacteriol.</i> , 170:1239-1244, 1988. |

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